BioMax Environmental
Environmental Consulting and Industrial Hygiene Services

July 29th, 2008

Mr. Doug Button
Deputy Director
Real Estate Services Division
707 Third Street - 8th Floor
West Sacramento, CA 95605

Post Mitigation Assessment Report
Department of General Services Board of Equalization Building
450 N. Street – 22nd Floor East Containment Area
Sacramento, California

Mr. Button,

BioMax Environmental, LLC (BioMax) is pleased to provide The Department of General Services (DGS) with this letter summary report detailing BioMax's findings and recommendations pertaining to our post mitigation microbial inspection and sampling assessment services provided within the 22nd Floor Eastern containment area of the Board of Equalization (BOE) building (subject building) located at 450 N Street, Sacramento, California. BioMax understands that these post mitigation microbial inspection and "clearance" sampling assessment services were contracted with BioMax, at your request, in an effort to review and verify the successful completion of microbial mitigative efforts performed by your restoration contractor, JLS Environmental, Inc., within the previously identified areas as noted within the subject building.

Therefore, these post mitigation clearance assessment services are intended to assess the current site conditions wherein mitigative activities were performed by JLS to investigate and address prior moisture and mold related damages and impacts. Procedural recommendations pertaining to BioMax's review of historical and analytical data associated with the subject area have been summarized within our report entitled 22nd Floor Procedures for Destructive Inspection and Microbial Mitigation, dated May 9th 2008. All historical reports and assessment data may also be obtained for further historical reference, as necessary.

These post mitigation microbial clearance assessment services, thereby, are intended to provide a professional evaluation supported by technical sampling data verifying physical conditions wherein the successful completion of microbial removal and decontamination within the affected areas has been achieved. Hence, following the completion of prescribed mitigative activities performed by your selected mitigation contractor, Mr. Michael A. Polkabla, CIH, REA of BioMax performed a post mitigation site inspection and sampling assessment within the affected

areas of the subject building containment areas as noted below. BioMax's findings and conclusions pertaining to our post mitigation sampling assessment are summarized herein.

SITE OBSERVATIONS

Site inspection and post mitigation assessment sampling activities were performed on Wednesday, July 23rd, 2008 wherein site access into contained and non-contained 22nd floor areas was facilitated by Mr. Rick Boggs of JLS. On this day, Mr. Michael A. Polkabla, CIH, REA of BioMax performed a visual site inspection within each the containment system barriers associated with the eastern quadrant areas and collected a series of airborne samples within and surrounding these areas as noted below.

On-site inspection and clearance sampling assessment activities were performed by Mr. Michael A. Polkabla, CIH, REA, of BioMax in accordance with currently recognized microbial assessment and sampling guideline procedures. Mr. Polkabla has been certified in the Comprehensive Practice of Industrial Hygiene by the American Board of Industrial Hygiene and holds the right to the designation "Certified Industrial Hygienist" (CIH) under certification number CP 7104. Mr. Polkabla is also certified by the California Environmental Protection Agency (Cal/EPA) as a Class I Registered Environmental Assessor (REA) under Cal/EPA certification number 05011. Previously established clearance criteria developed for these activities has been formalized in BioMax's Post Mitigation Clearance Assessment Protocols dated February 15th, 2008. Such protocols have been reviewed by BOE's environmental consultant, Hygientech prior to implementation by DGS. A summary of significant notations and observations gathered during BioMax's site inspection and clearance assessment within the subject containment areas are compiled as follows:

1. At the time of our site inspection and clearance sampling assessment performed on July 23rd, 2008 ambient outdoor conditions both prior to and following our interior assessment consisted of sunny and warm conditions with an outdoor temperatures range between 83 and 87 degrees F and relative humidity of 27 %. Predominant winds were noted at approximately 0-5 knots from the southwesterly direction at the time of our assessment. Interior environmental conditions within the sampled 22nd Floor areas consisted of a temperature range between 81 and 88 degrees F with relative humidity range of 26 to 27 percent.

2. The observed interior containment barrier systems whereby microbial mitigative activities were performed included the work areas primarily located along the building perimeter walls of the eastern quadrant of the 22nd floor of the subject building. Within such areas, ceiling plastic barriers erected by JLS were established and maintained within the impacted areas as per BioMax's protocols and noted on the "as built" construction site floor diagram documents. Such floor plan diagrams may be reviewed for further reference as supplied by the site mitigation contractor, as necessary. Based on BioMax's regular inspection and review of records and conditions within and surrounding the noted containment area, BioMax

areas of the subject building containment areas as noted below. BioMax's findings and conclusions pertaining to our post mitigation sampling assessment are summarized herein.

SITE OBSERVATIONS

Site inspection and post mitigation assessment sampling activities were performed on Wednesday, July 23rd, 2008 wherein site access into contained and non-contained 22nd floor areas was facilitated by Mr. Rick Boggs of JLS. On this day, Mr. Michael A. Polkabla, CIH, REA of BioMax performed a visual site inspection within each the containment system barriers associated with the eastern quadrant areas and collected a series of airborne samples within and surrounding these areas as noted below.

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believes that such evidence indicates that the current protective systems have provided appropriate control barriers during the performance of the noted mitigative activity.

3. Based on our post mitigation inspection within and surrounding the containment areas noted above, BioMax noted the absence of visible interior indications of elevated residual moisture and/or microbial indicators (such as staining, delamination, etc.) within the remaining exposed interior walls, wall framing, and wall cavities following the performance of mitigative measures. Utilization of a TraMex hand-held inductive moisture meter indicated normal moisture content within all remaining walls and building materials inspected within the sampled containment areas at the time of our assessment.

4. As noted within the previously referenced historical ports, the primary affected areas of visible moisture damage previously identified within the eastern quadrant of the 22nd floor primarily included moisture staining and mold damaged wallboard materials and adjacent office furnishings located within the perimeter wall areas and interior library. According to BioMax's review of historical data, such damage was likely caused by a combination of recent and historical building water intrusion events within these noted areas.

5. Containment system barriers encompassing the interior affected areas were observed and verified during multiple inspection dates under appropriate posting and negative pressure differential. Worker and equipment entry and exit chambers comprised of a series of zippered plastic access doorways were also observed attached to the noted containment barriers consistent with BioMax's previous written mitigation protocols.

6. As prescribed, all identified affected interior wallboard building materials had been removed from each of the noted areas exposing interior wall cavity framing (metal) and underlayment wallboard siding materials present within the impacted containment areas. Upon post mitigation inspection, all remaining exposed building materials associated with the interior structural and wall systems exhibited no significant staining and/or elevated mold growth following the completion of prescribed physical mold removal and chemical decontamination procedures performed by the selected mitigation contractor on the surfaces of such exposed building materials.

7. A 22nd Floor schematic record has been developed and maintained by JLS during mitigative wall removal activities indicating the specific areas where visible staining and mold like indicators have been identified within the exposed wall cavities and wall cavity underlayment materials. Such records indicating a summary of the linear extent of the impacted surface areas as well as the relative extent of mold-like damaged materials may be provided for review upon request.

8. In conjunction with our visual inspection, BioMax collected series airborne samples within and outside each of the containment areas noted below for subsequent comparative analysis. Such samples collected within and surrounding each the interior containment areas were performed in an effort to identify and quantify the presence of any potential significant

fugitive airborne mold spores present within (and surrounding) the containment systems following the completion of the prescribed mitigative effort.

9. BioMax also collected a series of digital images during these post mitigative inspection and sampling assessment activities to document the conditions and significant site observations gathered at this time. Such images are provided as an attachment to this summary report for further reference, as necessary.

SAMPLING PROCEDURES

On-site inspection and sampling assessment activities were conducted by Mr. Michael A. Polkabla, CIH, REA, of BioMax Environmental on July 23rd, 2008. All sampling equipment, supplies, calibration materials, and collection media were provided by BioMax as part of the performance of this scope of work. Sample collection procedures and methods were performed using standard industrial hygiene sampling methods following techniques prescribed by the contracted analytical laboratory.

Spore Trap Airborne Microbial and Particulate Sampling:

The collection of airborne Spore Trap microbial samples was achieved using Zefon Air-O-Cell sampling cassette collection devices placed in each of the areas identified in the tables below. Airborne Spore Trap samples were collected within and outside each of the containment areas at a height of approximately four feet above ground level using a tripod mounted Quick Take 15 air sampling pump manufactured by SKC. Samples were collected at a calibrated flow rate of 15 liters per minute for a total of five minutes per sample. Resultant total sample volumes, therefore, corresponded to 75 liters collected for each collected sample. Field calibration of the SKC air sampling pump was conducted and recorded prior to and following sampling activities using a field rotometer devise calibrated with a Bios Drycal primary standard flow meter. All spore trap air sampling and analytical procedures were performed in accordance with prescribed manufacturer guidelines as well as applicable professional certified industrial hygiene indoor air quality microbial investigation procedures and certified industrial hygiene practices.

Additional exterior ambient samples were also similarly collected and analyzed prior to and following the collection of interior samples in an effort to identify and quantify representative background microbial taxa (types), rank order, and corresponding airborne spore levels present within the ambient environment at the time of this assessment. Sampling collection activities performed during this study included the collection of identifiable airborne microbial contaminants within the representative area locations noted below:

Table 1. 22 Eastern Area Airborne Spore Trap Sampling Locations:

Air Sample Number	Spore Trap Air Sampling Location
13856183	Ambient outside location (Main Entry Level)

Air Sample Number	Spore Trap Air Sampling Location
13856222	Hallway on 22nd Floor near (outside) 2232 containment
13856267	Northeastern corner of 22nd floor east containment
13856188	Library room (2233) within 22nd floor east containment
13856224	Office 2236 within 22nd floor east containment
13856337	Office 2239 within 22nd floor east containment
13856230	Ambient outside sample from 23rd Floor west balcony

At the conclusion of sampling activities, preparation and shipping of the collected samples were accomplished in accordance with standard industrial hygiene chain of custody (COC) documentation procedures and quality assurance/quality control practices. Once collected, labeled, and recorded, all samples were double sealed within airtight plastic Ziploc shipping containers and transported via Federal Express Priority Mail to Environmental Microbial Laboratories (EMLabs) in San Bruno, California. EMLabs holds current applicable analytical accreditation and specializes in microbial analytical procedures. Sampling and chain of custody records are provided as an attachment to this letter report for further reference.

ANALYTICAL FINDINGS AND CONCLUSIONS

Airborne Spore Trap Findings:

Laboratory analytical methods for the identification and enumeration of microbial (mold) taxa and particulate contaminants were conducted in accordance with prescribed analytical procedures and quality control/assurance measures. Original laboratory results including the enumeration of recognizable microbial spore and particulate types are also attached to this letter report for further reference and detail. A summary of airborne Spore Trap microbial (mold) and particulate findings pertaining to each of the subject areas are presented in Table 2 below:

Table 2. Summary of Airborne Microbial and Particulate Findings – 23 South

Location Desc.	Total Mold Spores (Cts/m3)	Background Debris (scale of 1-4)	Skin Cell Fragments (scale of 1-4)
Ambient outside location (Main Entry Level)	4,146	3+	<1+

Location Desc.	Total Mold Spores (Cts/m3)	Background Debris (scale of 1-4)	Skin Cell Fragments (scale of 1-4)
Hallway on 22nd Floor near (outside) 2232 containment	13	2+	1+
Northeastern corner of 22nd floor east containment	13	2+	1+
Library room (2233) within 22nd floor east containment	53	1+	1+
Office 2236 within 22nd floor east containment	53	2+	1+
Office 2239 within 22nd floor east containment	53	2+	1+
Ambient outside sample from 23rd Floor west balcony	2,739	3+	<1+

The analytical findings presented in Table 2 clearly indicate the presence of significantly lower concentrations of microbial (mold) spores measured within each of the interior samples collected both within and surrounding the subject containment areas when compared to the levels currently measured within the samples collected from the corresponding ambient outside environment. Analytical findings also indicate similar fungal taxa distribution (mold types) and rank order (predominant taxa) of molds identified within the mitigated areas as well as the adjacent hallway area sampled (area noted as "Hallway" outside containment). Particularly worthy of note, was the absence of elevated levels of hydrophilic (moisture loving) mold taxa following the performance of mitigative activities within the noted area.

Although there are currently no regulatory standards or limits pertaining to allowable airborne fungal concentrations (for any mold taxa) present in indoor environments, there is a general consensus among indoor air quality experts that microbial contamination found within "typical healthy" living spaces are generally similar in kind and present at levels which are below those found in the corresponding native outside environment. BioMax believes that the absence of elevated moisture, absence of visible staining resultant from moisture and/or residual mold, and relatively fewer total airborne mold levels with typical taxa and rank order distribution following mitigative clean-up activities are consistent with these generally acceptable conditions. BioMax, therefore, believes that these findings provide reasonable evidence indicating that current microbial clean-up measures have successfully mitigated and contained mold contamination within the mitigated areas and materials to normal representative levels.

Based on these findings, BioMax believes that the current site conditions present within the mitigated areas as well as the corresponding analytical data collected and evaluated, following the performance of the recommended mitigative procedures, meets the clearance criteria established for these activities as presented in BioMax's Post Mitigation Clearance Assessment Protocols dated February 15th, 2008 as reviewed and approved by BOE's environmental consultant, Hygientech. Therefore, BioMax believes that achievement of such criteria warrants our determination and recommendation that the previously impacted areas may be considered acceptable for reconstruction at this time.

Airborne Particulate Findings:

Analytical findings pertaining to the levels of airborne particulates debris identified within the collected air samples within and surrounding the previously impacted areas also provide reasonable evidence indicating that current particulate clean-up and mitigative control measures have successfully removed, controlled, and contained particulate debris within the identified containment areas to acceptable levels.

Although, there are similarly no currently applicable regulatory standards pertaining to allowable airborne particulates with which to compare within such an environment, it is BioMax's professional opinion that interior particulate levels should be minimized to their lowest practicable levels wherever possible. Therefore, additional (and ongoing) recommendations for optional particulate control measures have been provided at the end of this report for client consideration.

RECOMMENDATIONS

Based on the findings and conclusions presented in this report, BioMax believes that the current airborne microbial levels sampled and analyzed from within the identified 22nd floor eastern quadrant areas provides no significant evidence of elevated residual microbial contamination or airborne contamination/migration following the completion of prescribed microbial mitigative measures. Hence, based on our site observations, field measurements, and review of these findings at this time, BioMax believes that the previously affected areas may be considered acceptable for general reconstruction following prudent reconstruction practices. . Therefore, based on these findings, BioMax recommends the implementation of the noted additional optional measures and actions discussed below:

1. BioMax believes that current airborne microbial (mold) levels and mold types have been identified within the noted containment areas at levels which are consistent with generally acceptable conditions and parameters at this time. Hence, BioMax recommends that no further airborne microbial sampling activities are warranted within the specific containment areas under the conditions of this prescribed scope of work at this time. However, due to the understood knowledge that microbial contamination, by nature, may change over time resultant from future/follow-up site activities as well as changing moisture conditions and

environments, these recommendations are subject to revision in the event that such conditions and/or environments arise.

2. During the performance of interior reconstruction activities, BioMax recommends that a qualified and experienced building inspector/contractor be utilized to verify the current functional integrity of all applicable building related plumbing, flashing, sealing, and drainage systems in accordance with current building codes and construction practices. Any identified deficiencies should be appropriately documented, corrected, and then functionally verified (tested) prior to subsequent reconstruction and tenant re-occupancy/use. Certainly, the establishment/installation of any additional engineering controls (as identified through additional professional engineering consultation) should also be performed and implemented in accordance with applicable standards, building codes, and ordinances, as appropriate.

3. BioMax recommends that all reconstruction of interior structural building materials within these areas should only be undertaken utilizing high quality, visibly clean (hand selected) construction grade building materials obtained from reputable commercial sources and which are verified through visual assessment to be free from elevated microbial contamination and/or elevated moisture content. Building materials, which are notably moist and/or visibly stained, should not be used during the reconstruction undertaken within the subject building.

4. BioMax recommends that all current plastic barriers (as established during this mitigation) should remain during any reconstruction activity so as to minimize the potential transmission of associated construction dust and debris throughout the subject structure.

5. As previously noted in is report, detectable levels of airborne particulates consisting of skin cell fragments and general debris particles were identified within the sampled interior areas surrounding the containment systems. Although such particulates were identified at low detectable levels, BioMax recommends (as an additional precautionary measure) that DGS considers the performance of supplemental post reconstruction detail cleaning following the completion of interior renovation and/or reconstructive activities.

6. BioMax believes that the potential transmission and accumulation of the identified indoor airborne particulates may be significantly reduced (if desired) on an immediate and ongoing basis through the use of routine HEPA filtered vacuuming and damp-wipe O&M cleaning methods employed by DGS maintenance personnel. BioMax's experience has indicated that these relatively simple and effective measures and methods have been shown to significantly reduce the accumulation of settled particulate debris on an immediate and ongoing basis if so desired.

7. Reasonable additional assessment and investigative measures may also be required upon the identification of new or previously undiscovered materials and/or information related to moisture/microbial impacts within the subject building structures, as necessary. Any occurrence and/or re-occurrence of moisture intrusion following routine O&M and/or general reconstruction within the subject building should also be reviewed and addressed through additional professional consultation, as necessary. BioMax is certainly prepared to provide

such professional consultation pertaining to these and any follow-up investigative measures upon request.

BioMax believes that the conclusions and recommendations outlined above are consistent with standard industry microbial mitigative practices and prudent industrial hygiene hazard control methods. Please do not hesitate to contact our offices directly at (510) 724-3100 if you have any additional questions, comments, or require further assistance regarding this matter.

Sincerely,

Michael A. Polkabla, CIH, REA
Vice President, Principal

LIMITATIONS

Please note that the professional opinions presented in this review are intended for the sole use of the California State Department of General Services (DGS) and their designated beneficiaries. No other party should rely on the information contained herein without the prior written consent of BioMax Environmental and DGS. The professional opinions provided herein are based on BioMax's review and understanding of current site information and observed site conditions present within the areas inspected at the time these services were performed. Professional recommendations provided as part of this limited scope of work are intended for client consideration only and are not intended as a professional or regulatory mandate. Implementation of any of the above measures or recommendations does not, in any way, warrant the day-to-day health and/or safety of building occupants, residents, site workers, nor regulatory or building code compliance status during normal and changing environmental conditions. As microbial contamination, by nature, may change over time due to additional moisture intrusion, favorable growth conditions, and changing environments, the findings of this report are subject to change in the event that such conditions and/or environments arise. Also, the professional opinions expressed here are subject to revision in the event that new or previously undiscovered information is obtained or uncovered.

The information contained in this and any other applicable communication is for consideration purposes only. It is not intended, nor should it be construed as providing legal advice or warranting any level of safety or regulatory compliance. The sole purpose of such information is to assist with the anticipation, identification, evaluation and control of elevated and/or unnecessary health of physical hazards. Any action taken based on this information, including but not limited to opinions, suggestions and recommendations, whether implied or expressed, is the sole responsibility of the individual taking the action. The management of acceptable health and safety is criteria dependent and situation specific in nature, therefore requiring extensive knowledge and prudent value assessments so as to be properly determined and maintained.

These services were performed by BioMax in accordance with generally accepted professional industrial hygiene principals, practices, and standards of care. Under the existing Industrial Hygiene Definition and Registration Act, all reports, opinions or official documents prepared by a Certified Industrial Hygienist (CIH) constitutes an expression of professional opinion regarding those facts or findings which are subject of a certification and does not constitute a warranty or guarantee, either expressed or implied.

EMLab P&K

Report for:

Mr. Michael Polkabla
Biomax Environmental
775 San Pablo Ave.
Pinole, CA 94564

Regarding: Project: 072308-01; 450 N Street, 22nd Floor, East, Sacramento, CA
EML ID: 447241

Approved by:

Lab Manager
Dr. Kamashwaran Ramanathan

Dates of Analysis:
Spore trap analysis: 07-25-2008

Project SOPs: Spore trap analysis (I100000)

EMLab P&K
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Biomax Environmental
C/O: Mr. Michael Polkabla
Re: 072308-01; 450 N Street, 22nd Floor, East, Sacramento, CA

Date of Sampling: 07-23-2008
Date of Receipt: 07-24-2008
Date of Report: 07-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	13856183: Ambient main entry		13856222: Hallway, 2nd floor, 2232, OC		13856267: 22 East containment, NE corner		13856188: 22E, library, IC, 2233	
Comments (see below)	None		None		None		None	
Lab ID-Version‡:	1970558-1		1970559-1		1970560-1		1970561-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria								
Arthrinium								
Ascospores*	4	213						
Aureobasidium								
Basidiospores*	12	640						
Bipolaris/Drechslera group								
Botrytis								
Chaetomium	1	13						
Cladosporium	34	1,810						
Curvularia								
Epicoccum					1	13		
Fusarium								
Myrothecium								
Nigrospora								
Other brown	3	40						
Penicillium/Aspergillus types†	26	1,390					1	53
Pithomyces								
Rusts*								
Smuts*, Periconia, Myxomycetes*	2	27	1	13				
Stachybotrys								
Stemphylium								
Torula	1	13						
Ulocladium								
Zygomycetes								
Background debris (1-4+)††	3+		2+		2+		1+	
Hyphal fragments/m3	93		< 13		< 13		< 13	
Pollen/m3	13		< 13		< 13		< 13	
Skin cells (1-4+)	< 1+		1+		1+		1+	
Sample volume (liters)	75		75		75		75	
TOTAL SPORE/m3		4,146		13		13		53

Comments:

* Most of these spore types are not seen with culturable methods (Andersen sampling), although some may appear as non-sporulating fungi. Most of the basidiospores are "mushroom" spores while the rusts and smuts are plant pathogens.
† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium*, *Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
††Background debris indicates the amount of non-biological particulate matter present on the trace (dust in the air) and the resulting visibility for the analyst. It is rated from 1+ (low) to 4+ (high). Counts from areas with 4+ background debris should be regarded as minimal counts and may be higher than reported. It is important to account for samples volumes when evaluating dust levels.
The Limit of Detection is the product of a raw count of 1 and 100 divided by the percent read. The analytical sensitivity (counts/m3) is the product of the Limit of Detection and 1000 divided by the sample volume.
‡ A "Version" greater than 1 indicates amended data.

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C/O: Mr. Michael Polkabla
Re: 072308-01; 450 N Street, 22nd Floor, East, Sacramento, CA

Date of Sampling: 07-23-2008
Date of Receipt: 07-24-2008
Date of Report: 07-25-2008

SPORE TRAP REPORT: NON-VIABLE METHODOLOGY

Location:	13856224: 22E, office 2236		13856337: 22E, 2239 office		13856230: 23 N balcony ambient	
Comments (see below)	None		None		None	
Lab ID-Version‡:	1970562-1		1970563-1		1970564-1	
	raw ct.	spores/m3	raw ct.	spores/m3	raw ct.	spores/m3
Alternaria					1	13
Arthrinium						
Ascospores*	1	53			3	160
Aureobasidium						
Basidiospores*					6	320
Bipolaris/Drechslera group						
Botrytis						
Chaetomium					1	13
Cladosporium					22	1,170
Curvularia						
Epicoccum						
Fusarium						
Myrothecium						
Nigrospora						
Other brown					1	13
Other colorless						
Penicillium/Aspergillus types†			1	53	19	1,010
Pithomyces						
Rusts*						
Smuts*, Periconia, Myxomycetes*					2	27
Stachybotrys						
Stemphylium						
Torula					1	13
Ulocladium						
Zygomycetes						
Background debris (1-4+)††	2+		2+		3+	
Hyphal fragments/m3	< 13		< 13		53	
Pollen/m3	< 13		< 13		< 13	
Skin cells (1-4+)	1+		1+		< 1+	
Sample volume (liters)	75		75		75	
TOTAL SPORE/m3		53		53		2,739

Comments:

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† The spores of *Aspergillus* and *Penicillium* (and others such as *Acremonium, Paecilomyces*) are small and round with very few distinguishing characteristics. They cannot be differentiated by non-viable sampling methods. Also, some species with very small spores are easily missed, and may be undercounted.
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Re: 072308-01; 450 N Street, 22nd Floor, East, Sacramento, CA

Date of Sampling: 07-23-2008
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MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 13856183, Ambient main entry

Fungi Identified	Outdoor data	Typical Outdoor Data by Date† Month: July				Typical Outdoor Data by Location‡ State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	-	7	40	420	69	7	27	210	59
Bipolaris/Drechslera group	-	7	13	220	22	7	13	120	14
Chaetomium	13	7	13	110	17	7	13	110	19
Cladosporium	1,810	53	750	9,100	98	53	640	6,400	98
Curvularia	-	7	22	720	20	7	13	200	7
Nigrospora	-	7	13	170	14	7	13	170	8
Other brown	40	7	13	93	37	7	13	80	37
Penicillium/Aspergillus types	1,390	27	210	2,600	86	40	210	2,500	87
Stachybotrys	-	7	13	430	4	7	13	300	5
Torula	13	7	13	170	16	7	13	150	13
Seldom found growing indoors**									
Ascospores	213	13	190	6,500	82	13	110	1,800	72
Basidiospores	640	13	310	21,000	94	13	230	6,700	94
Rusts	-	7	13	240	25	7	13	250	28
Smuts, Periconia, Myxomycetes	27	7	53	1,200	79	8	40	480	71
TOTAL SPORES/M3	4,146								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

‡ The Typical Outdoor Data by Location represents the typical outdoor spore levels for the region indicated for the entire year. As with the Typical Outdoor Data by Date, the four columns represent the frequency of occurrence and the typical low, medium, and high concentration values for the spore type indicated. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

*The spores in this category are generally capable of growing on wet building materials in addition to growing outdoors. Building related growth is dependent upon the fungal type, moisture level, type of material, and other factors. *Cladosporium* is one of the predominant spore types worldwide and is frequently present in high numbers. *Penicillium/Aspergillus* species colonize both outdoor and indoor wet surfaces rapidly and are very easily dispersed. Other genera are usually present in lesser numbers.

**These fungi are generally not found growing on wet building materials. For example, the rusts and smuts are obligate plant pathogens. However, in each group there are notable exceptions. For example, agents of wood decay are members of the basidiomycetes and high counts of a single morphological type of basidiospore on an inside sample should be considered significant.

Interpretation of the data contained in this report is left to the client or the persons who conducted the field work. This report is provided for informational and comparative purposes only and should not be relied upon for any other purpose. "Typical outdoor data" are based on the results of the analysis of samples delivered to and analyzed by EMLab P&K and assumptions regarding the origins of those samples. Sampling techniques, contaminants infecting samples, unrepresentative samples and other similar or dissimilar factors may affect these results. In addition, EMLab P&K may not have received and tested a representative number of samples for every region or time period. EMLab P&K hereby disclaims any liability for any and all direct, indirect, punitive, incidental, special or consequential damages arising out of the use or interpretation of the data contained in, or any actions taken or omitted in reliance upon, this report.

EMLab P&K
1150 Bayhill Drive, Suite 100, San Bruno, CA 94066
(650) 829-5800 Fax (650) 829-5852 www.emlab.com

Client: Biomax Environmental
C/O: Mr. Michael Polkabla
Re: 072308-01; 450 N Street, 22nd Floor, East, Sacramento, CA

Date of Sampling: 07-23-2008
Date of Receipt: 07-24-2008
Date of Report: 07-25-2008

MoldRANGE™: Extended Outdoor Comparison

Outdoor Location: 13856230, 23 N balcony ambient

Fungi Identified	Outdoor data	Typical Outdoor Data by Date† Month: July				Typical Outdoor Data by Location‡ State: CA			
	spores/m3	low	med	high	freq %	low	med	high	freq %
Generally able to grow indoors*									
Alternaria	13	7	40	420	69	7	27	210	59
Bipolaris/Drechslera group	-	7	13	220	22	7	13	120	14
Chaetomium	13	7	13	110	17	7	13	110	19
Cladosporium	1,170	53	750	9,100	98	53	640	6,400	98
Curvularia	-	7	22	720	20	7	13	200	7
Nigrospora	-	7	13	170	14	7	13	170	8
Other brown	13	7	13	93	37	7	13	80	37
Penicillium/Aspergillus types	1,010	27	210	2,600	86	40	210	2,500	87
Stachybotrys	-	7	13	430	4	7	13	300	5
Torula	13	7	13	170	16	7	13	150	13
Seldom found growing indoors**									
Ascospores	160	13	190	6,500	82	13	110	1,800	72
Basidiospores	320	13	310	21,000	94	13	230	6,700	94
Rusts	-	7	13	240	25	7	13	250	28
Smuts, Periconia, Myxomycetes	27	7	53	1,200	79	8	40	480	71
TOTAL SPORES/M3	2,739								

† The Typical Outdoor Data by Date represents the typical outdoor spore levels across North America for the month indicated. The last column represents the frequency of occurrence. The low, medium, and high values represent the 2.5, 50, and 97.5 percentile values of the spore type when it is detected. For example, if the frequency of occurrence is 63% and the low value is 53, it would mean that the given spore type is detected 63% of the time and, when detected, 2.5% of the time it is present in levels above the detection limit and below 53 spores/m3. These values are updated periodically, and if enough data is not available to make a statistically meaningful assessment, it is indicated with a dash.

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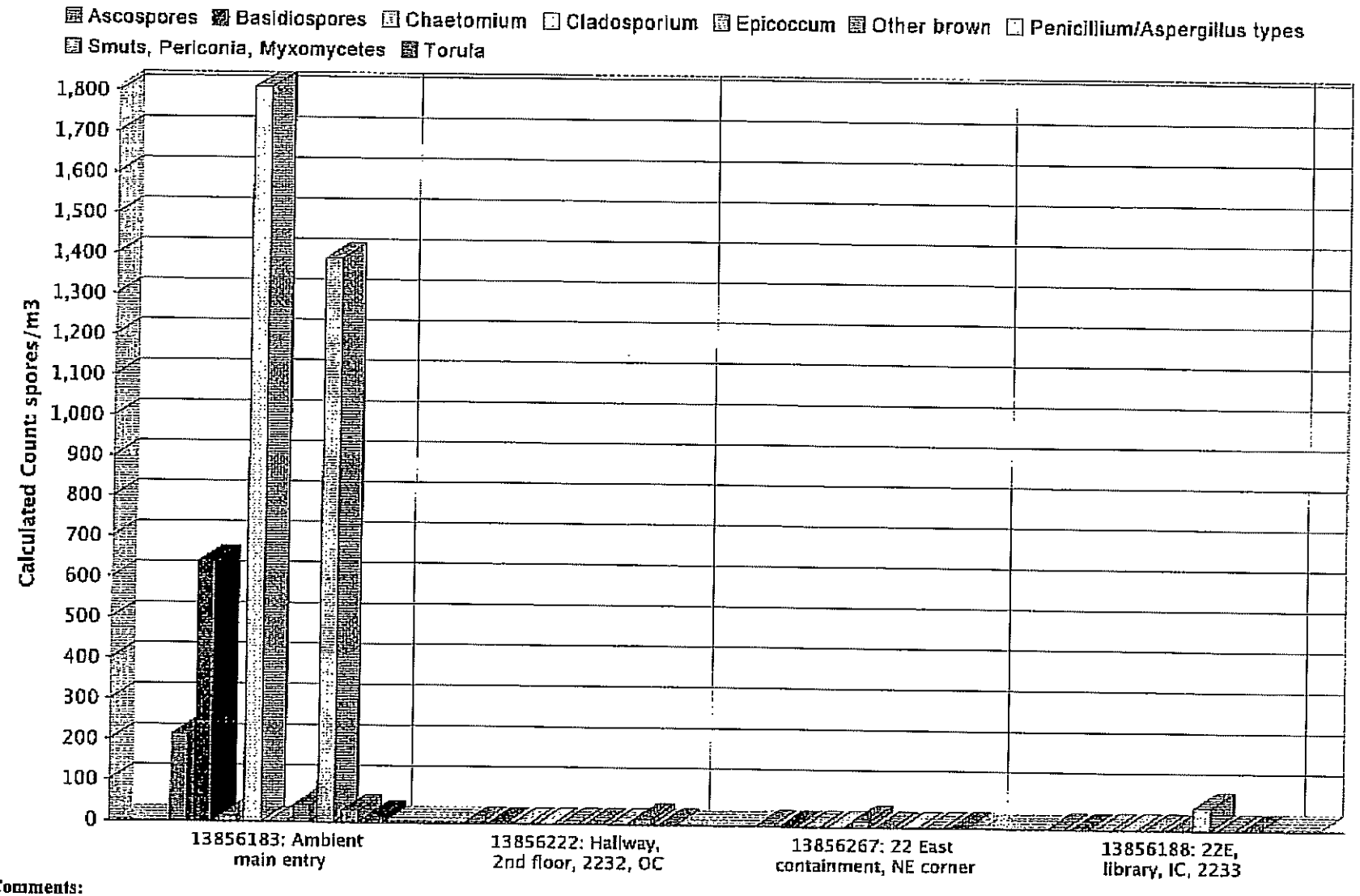
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.

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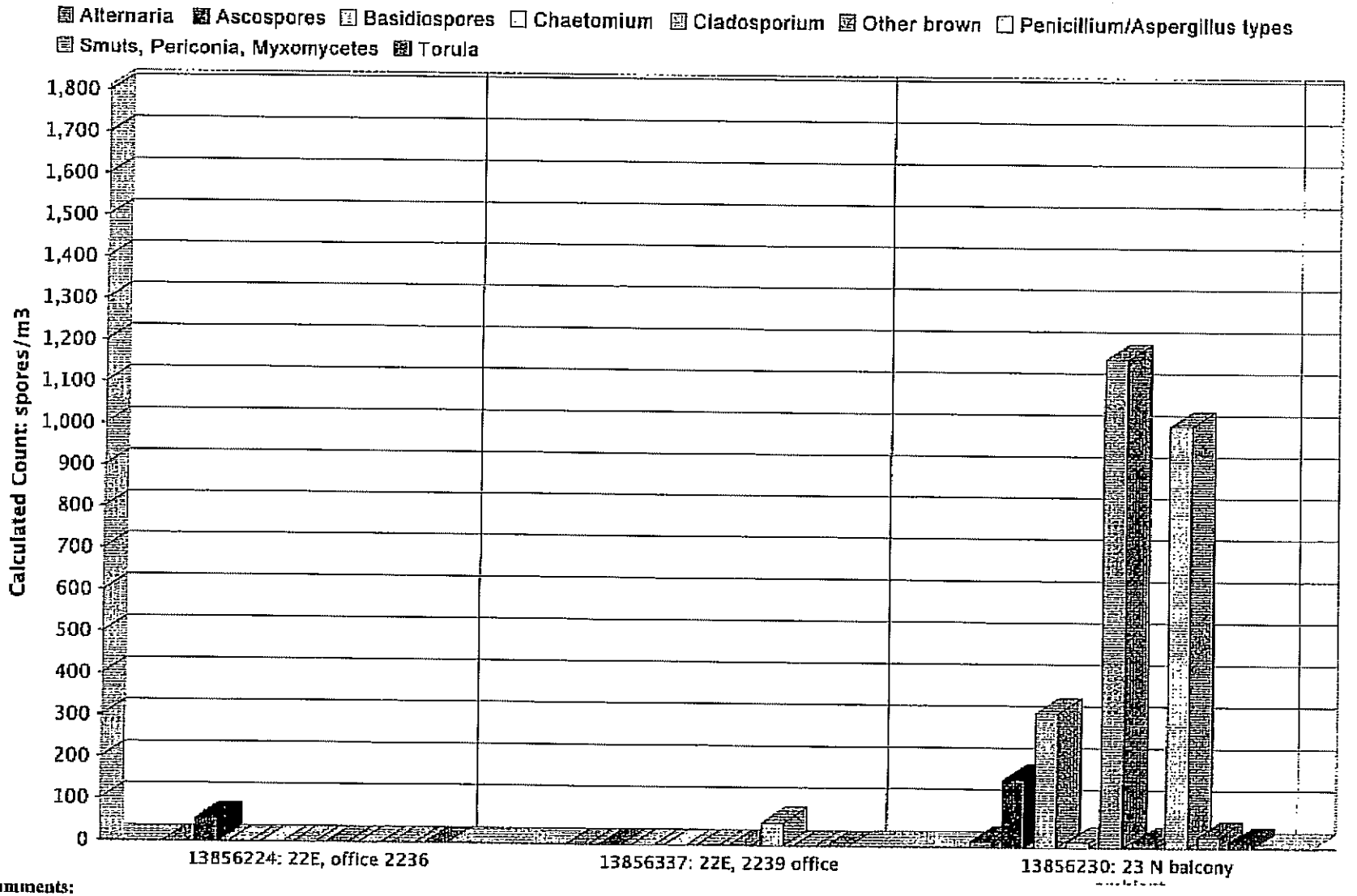
SPORE TRAP REPORT: NON-VIABLE METHODOLOGY



Comments:

Note: Graphical output may understate the importance of certain "marker" genera.

MICROBIAL SPORE TRAP AIR SAMPLING RECORD

000447241

Page 1 of 1

BioMax Environmental
775 San Pablo Ave.
Pinole, CA 94564
www.biomaxenvironmental.com

Phone: (510) 724-3100
Fax: (510) 724-3145
biomaxenv@aol.com

Location: 450 N Street 22nd Floor (East) Sacramento, CA

Client: DGS

Project #: 072308-01

Date: 7/23/08

Collected by: MA Polkabla, CIH, REA

Signature:

Laboratory: EMLabs

Req. Turn Around: 24 HR

Analysis (circle): (Fungal) Particulate (ID / Quantification)

Sample Number	Time	Location/Desc	Temp / RH
13856183	1230	Ambient Main Entry	83°/27%
13856222	1255	Hallway 22nd Floor (2232 O.C.)	81°/26%
13856267	1305	22 East Containment (NE. Corner)	86°/27%
13856188	1320	22E Library (I.C.) (2233)	85°/26%
13856224	1330	22E - Office 2236	86°/27%
13856337	1338	22E - 2239 office	88°/26%
13856230	1350	23 N Balcony Ambient	87°/27%

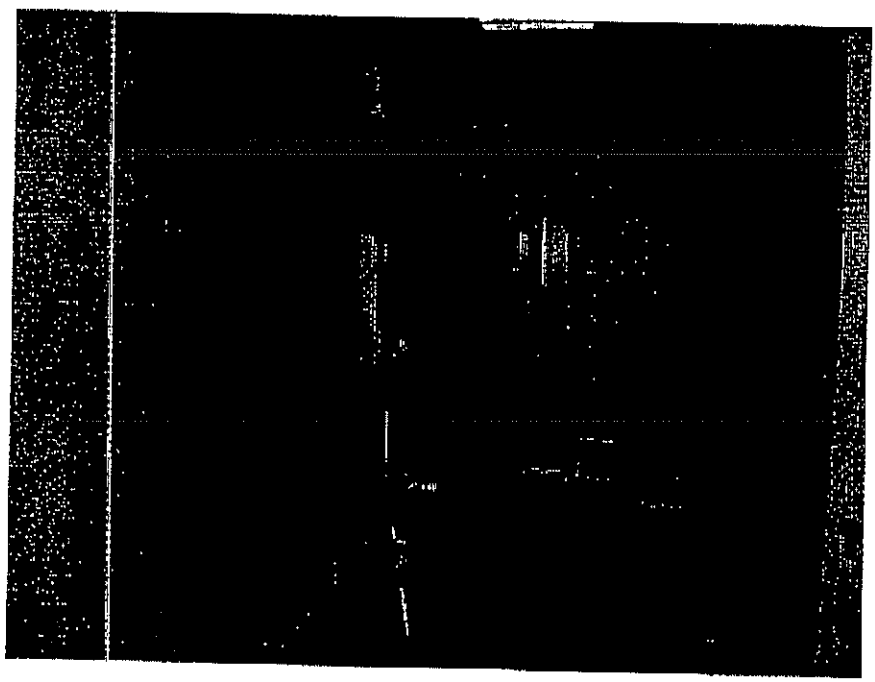
Total Sample Time (min):	Flow Rate (l/min):	Total Sample Volume (liters):	Ambient Conditions:	Comments:
5 min	15 e/m	75 l	Clear / warm 0-5 mpH SW	

Please sign this form below acknowledging sample receipt and return executed form with laboratory reports. Fax, send, e-mail results to BioMax Environmental at (510) 724-3145 biomaxenv@aol.com
Other Instructions:

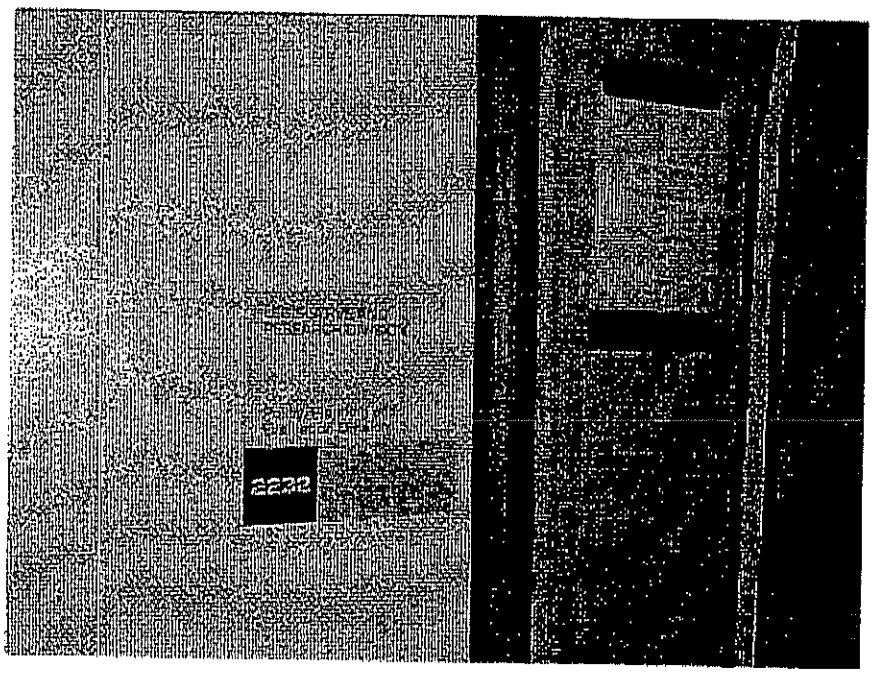
Relinquished by:	*Received By:* Ann Mowery
Method of Transportation: FedEx	
Time/Date Sent: 4:10 on 7/23/08	*Time/Date Received:* 7-24-08 9:15

Attachment A: Digital Images
July 23rd, 2008
BOE Building 22nd Floor East Clearance
Sacramento, CA

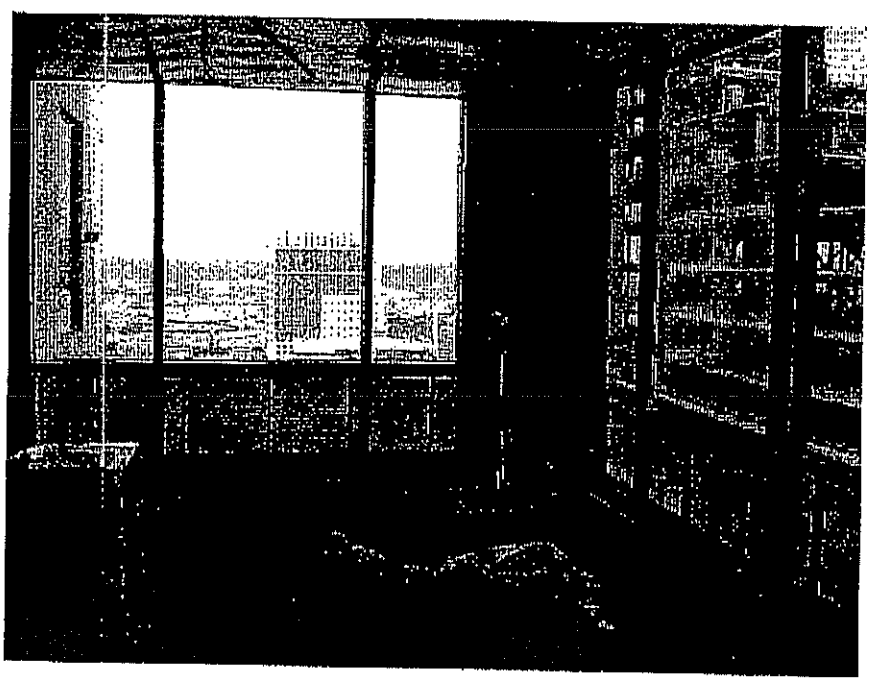
1) Image of ambient air sampling location at front entry of BOE Building (Subject Building) located at 450 N Street, Sacramento, California at time of assessment.



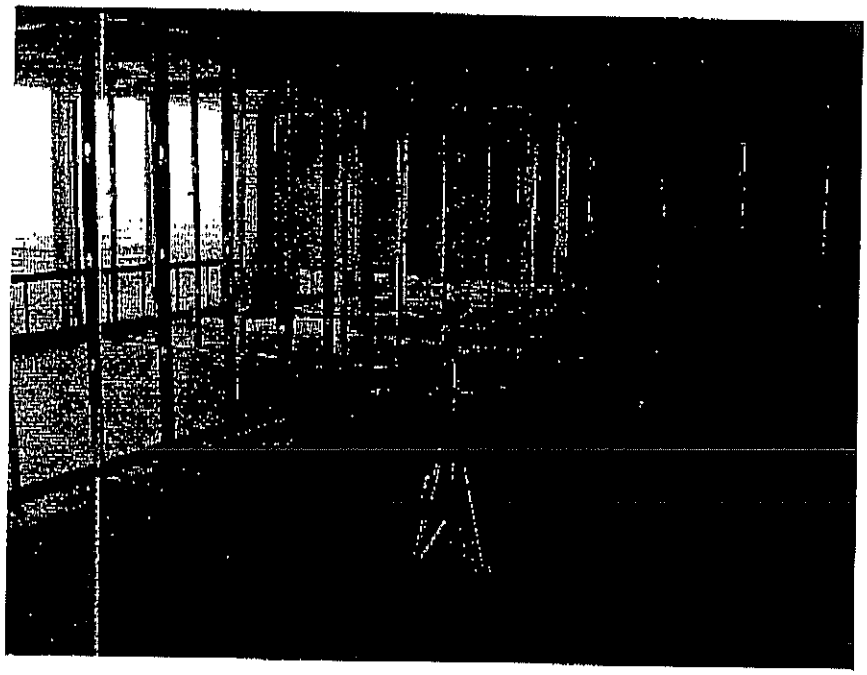
2) Image of air sampling activity (outside containment) within hallway leading to 22 East containment entry area at time of assessment.



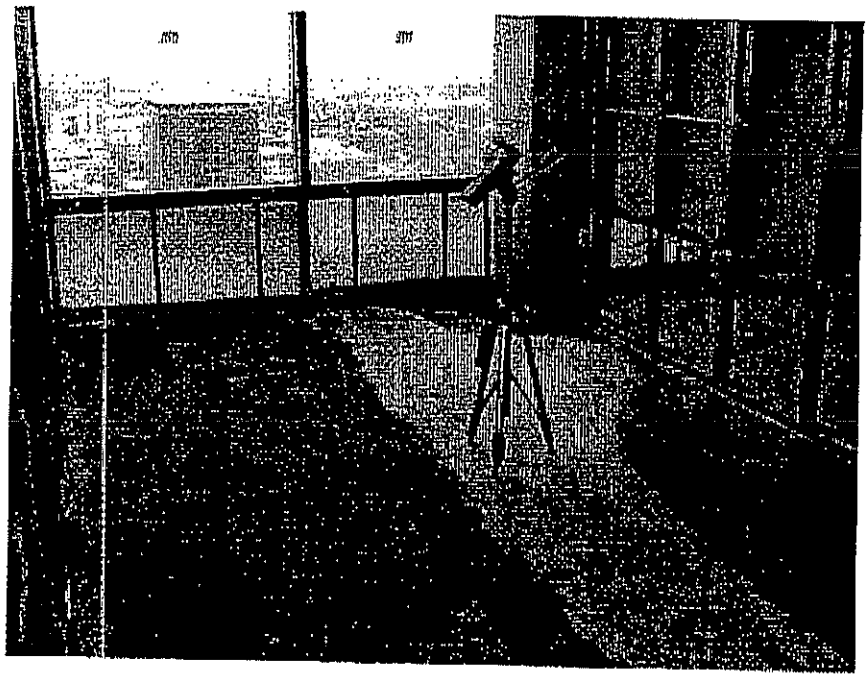
3) Image of posting upon entry into 22 Eastern containment system at time of assessment.



4) Image of air sampling equipment within 22 East containment area at northeastern corner at time of assessment.

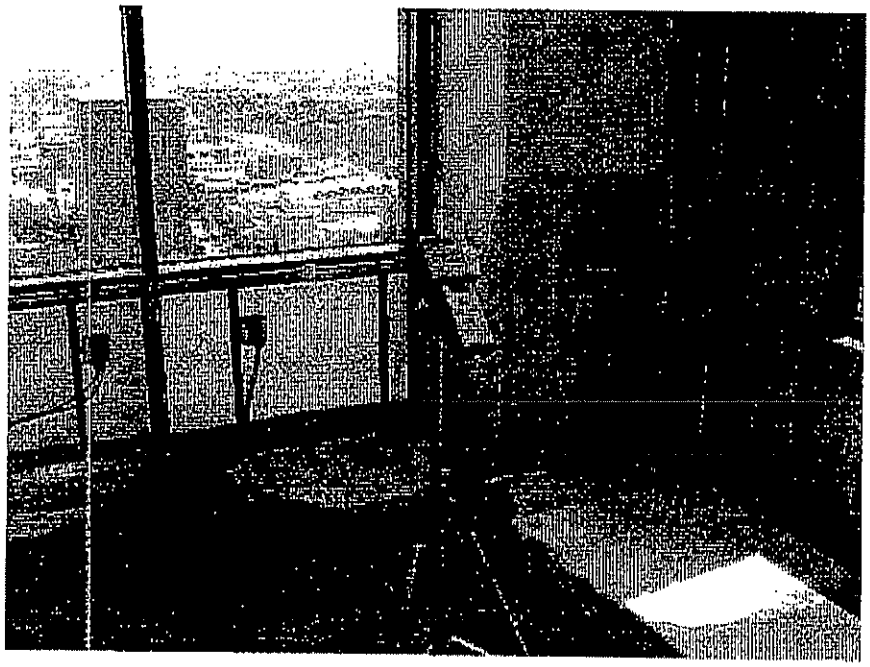


5) Image within 22nd Floor east containment area indicating location of air sampling equipment and extent of perimeter and interior wall removal.



6) Additional image of air sampling location within interior of 22 East containment area at time of assessment.

July 23rd, 2008
BOE Building 22 East
Sacramento, CA



7) Close-up image of air sampling equipment and perimeter wallboard removal during clearance assessment within 22 East containment area.

8) Image of ambient air sampling equipment located on northern portion of 23rd floor area.